CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-11-02-04** **Date: 03-11-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.
Agency	:	S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/216/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-04/01
Sample Type	:	Dalmia 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-11-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.78	–
2	Finess by Air permeablity method (m^2/kg, Min)	283.4	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-11-02-04** **Date: 30-11-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.

Agency : S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/216/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-17

Sample ID No : 2017-11-02-04/01

Sample Type : Dalmia 53grade cement

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 02-11-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	40.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

Note:
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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-02-04** **Date: 04-11-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.
Agency	:	S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/216/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-04/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	2847	2847	19.0	81.0	90-100
3	20 mm	4274	7121	47.5	52.5	30-70
4	10 mm	5375	12496	83.3	16.7	10-35
5	4.75 mm	1875	14371	95.8	4.2	0-5
6	Pan	629	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-02-04** **Date: 04-11-17**

Sample ID No : 2017-11-02-04/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.24	–

Note:
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Quality Manager

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-02-04** **Date: 04-11-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.

Agency : S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/216/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-17

Sample ID No : 2017-11-02-04/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-11-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	162	185	18.5	81.5	60-95	75-100	85-100	95-100
4	1.18 mm	263	448	44.8	55.2	30-70	55-90	75-100	90-100
5	600 micron	106	554	55.4	44.6	15-34	35-59	60-79	80-100
6	300 micron	193	747	74.7	25.3	5-20	8-30	12-40	15-50
7	150 micron	177	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-02-04** **Date: 04-11-17**

Sample ID No : 2017-11-02-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.25	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-10-03** **Date: 15/11/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.

Agency : S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/216/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-17

Sample ID No : 2017-11-10-03/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/11/2017	15/11/2017	149.22 X 150.24 X 150.66	22419	8.212	399.1	17.8	17.7
2	Drain Concrete	M20	08/11/2017	15/11/2017	150.47 X 150.21 X 150.69	22602	8.274	409.1	18.1	
3	Drain Concrete	M20	08/11/2017	15/11/2017	150.22 X 150.47 X 150.24	22604	8.195	386.5	17.1	

Note:

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-10-03** **Date: 15/11/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.

Agency : S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/216/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-17

Sample ID No : 2017-11-10-03/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/11/2017	15/11/2017	150.20 X 151.22 X 150.28	22713	8.246	383.9	16.9	17.2
2	Drain Concrete	M20	08/11/2017	15/11/2017	149.21 X 151.24 X 150.29	22567	8.199	390.4	17.3	
3	Drain Concrete	M20	08/11/2017	15/11/2017	151.24 X 150.18 X 148.22	22713	8.265	395.2	17.4	

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-11-04-02** **Date: 06-11-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.
Agency	:	S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/216/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-17
Sample ID No	:	2017-11-04-02/01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.39	546	670	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	569	682	20.0%	Satisfactory	Satisfactory

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-11-04-02** **Date: 08-11-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains Sonnappa Layout cross roads Virupaksha in Ward no.09 (Vidyaranyapura) Vidyaranyapura Sub division.

Agency : S.Sri N Lokanatha Reddy, No.05, 1st main 7th B cross Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/216/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-17

Sample ID No : 2017-11-04-02/02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 04/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.83	100.37	1.247	4515	81.9	18.1	16.9	21.1
2	Cover Slab-2	75.57	100.25	1.228	4484	80.3	17.9	16.7	20.8
3	Cover Slab-3	75.38	100.48	1.184	4462	79.5	17.8	16.6	20.7

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